**Comparison of Arizona's Science Standard to the Science and Engineering Practices**

| Arizona Science Standard<br>Strand 1: Inquiry | *A Framework for K-12 Science Education*<br>Science and Engineering Practices |
|---|---|
| **Observations, Questions, and Hypotheses**<br>Formulate predictions, questions, or hypotheses based on observations. Locate appropriate resources. | • Asking questions and defining problems<br>• Obtaining… information |
| **Scientific Testing (Investigating and Modeling)**<br>Design and conduct investigations. | • Developing and using models<br>• Planning and carrying out investigations<br>• Designing solutions<br>• Obtaining… information |
| **Analysis and Conclusions**<br>Analyze and interpret data to explain correlations and results; formulate new questions. | • Analyzing and interpreting data<br>• Using mathematics and computational thinking<br>• Constructing explanations and designing solutions<br>• …Evaluating and communicating information |
| **Communication**<br>Communicate results of investigations. | • Constructing explanations and designing solutions<br>• Engaging in argument from evidence<br>• …Communicating information |

This chart shows how concepts in Strand 1 of Arizona's Science Standard and the eight Science and Engineering Practices from the *Framework* complement and can be taught in conjunction with each other. While the descriptions of Arizona concepts are broad, the *Framework* provides additional specificity; both are intended to show what students should be doing when engaged in learning science.